ADDRESS Ope	ELL WASTE MAN erated by CHEM-NUCL) Box 726, Barnwell, S (803) 259- ADIOACTIVE SHIPMEN	-EAR SYSTEM outh Carolina 1781	Tri~ CARRIER <u>state</u> ADDRESS <u>Joplin, Missouri</u> 64801 TELEPHONE 417-624-3131 SHIPPING DATE					
CITY Niagara Falls STATE New York				SHIPMENT TYPE SHIPMENT SURFACE EXPOSURE MR/hR				
CONTACT <u>G E Walck</u> PHONE (716)278-3361				SHIPMENT NO 615-3003 LINER-SERIAL NO				
(2) consigned to CHEM-NUCLEAR SYSTEMS, INC P O BOX 726, OSBORN ROAD BARNWELL, S C 29812 (3) USE THIS NUMBER (ALL CONTINUATION PA	-	r	PAGE OF	DRIVER SIGNATURE (// MARCH DATE 8/21/84				
(5) TOTAL FOR PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172 101)	ID NUMBER	(6)	SHIPMENT	ISOTOPE CRAMS				
NO OF WEIGHT PACKAGES (Pounds)	<u> </u>	VOLUME TOT	AL m	Clines Camilliannes Source (Pounds)				
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Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910	(8)						
Radioactive Material, special form, n o s —Radioactive Material Radioactive Material, instruments and articles—Radioactive Material	UN2974 · UN2911	TOTAL PALLET	ET \	, 4				
Other (Specify)	ONZJII	VOLUME (CU	FI)					
(9) WASTE DESCRIPTION Misc. Debris (13) (X) Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGI (14) IMPORTANT "This is to certify that the above named materials are properly classified, described and labeled, and are in proper condition for transportation according to the applicable regulations Transportation Signature Company Date	G MUST BE ENT d, packaged, marked	of low lev Material amended made tha Date <u>a</u> Title and Telephon	on is hereby made to the Sel radioactive waste has be License No 097 as ame , and the effective Barnwe to the inspection revealed	South Carolina Department of Health and Environmental Control that this shipment been inspected in accordance with the requirements of South Carolina Radioactive ended, and the Nuclear Regulatory Commission's License No 12 13536 01 as ell Site Disposal Criteria within 48 hours prior to shipment, and further certification is it no items of non-compliance with all applicable laws, rules and regulations.				
This material meets all license requirements			Aal Data	- Arrival Survey No				
☐ This material was disposed of in accordance with license	TRIPLICAT	F COPY	Arrıval Date	Arrival Survey No				
☐ Discrepancy	-	2 00. 1	Date/Time Buried	H P Initial				
	Form No CN		Trench No	Location Code				
	- (9-83	5)	Waste Class Code					
Date	SEE INSTRUCTIONS ON FOR FILLING OUT			Personnel Exposure				
Authorized Signature Title								

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GENERATOR NAME <u>Umetco Minerals Corp.</u>

BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM-NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

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PAGE 2 OF 2

CONTINUATION SHEET

(16) ITEM NO	(17) RADIO NUCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	(21) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(22) WASTE DESCRIPTION	(23) WASTE FORM CLASS		(25) Y SPECIAL IJ) NUCLEAR MATERIAL (grams)	(26) SOURCE MATERIAL (pounds)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Cu Ft)	(29) CONTAINER TYPE	CONTAINER SURFACE QuiR/HR	LEVELS	C (DF	(31) «TAMINATION CONTAINER SURFACE PM/100cm2) a Beta Gamma	(32) DOT SUB TYPE (A1 A2 LSA etc)	(33) FISSILE CLASS	(34) LABELS/ MARKINGS USED
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Form No CNS 201 (9-83)

(1) GENERATOR NAME UMETCO MINERALS CORP. ADDRESS 137 - 47th Street	Operated by	Υ	CARRIER State ADDRESS Joplin, Missouri 64801 TELEPHONE 417-624-3131 SHIPPING DATE 8-21-84												
CITY Niagara Falls STATE New York	<u>k</u>	Ķ <u>.</u>							SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE . 046 mR/hR						
CONTACT G.E. Walck PHONE (716)278-3361		_							SHIPMENT NO 615-3003 LINER SERIAL NO						
(2) consigned to CHEM NUCLEAR SYSTEMS, INC P O BOX 726, OSBORN ROAD BARNWELL, S C 29812	(3) USE THIS NUMBER ON ALL CONTINUATION PAGES	VOLUME ALI 0884–324		10	PAGE _ OF _		DRIVER S	SIGNATURE	Pober	d-Drek	UNDATE 8,	/21/84			
(5) TOTAL FOR PROPER SHIPPING NAME & H	HAZARD CLASS	ID NUMBER	(6)		SH	HIPMENT	TOTALS	•••			(7) TOT	AL SNM			
EACH CLASS (PER 49 CFR 172 I	01)		VOLUME	TOTAL			FIVITY (10CFR uries M			SOURCE	U 233	GRAMS N/A			
PACKAGES (Pounds) Radioactive Material, empty packages		UN2908	(Cubic Feet)	NO OF PACKAGES	ALL ISOTOPES	TRITIUM	- C 14	Tc 99	1 129	(Pounds)		N/A			
Radioactive Material, fissile, n o s —Radioactive Material, low specific activity, n o s —Radioactive Material, low specif	erial dioactive Material	UN2918 UN2912	520	8	.054	NP	NP	NP	NP	0.8	U 235				
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Radioactive Material, special form, n o s —Radioactive Material, instruments and articles—Rad	ve Material	UN2974 UN2911	TOTAL F	ALLET (CU FT)		N/A_	*								
Other (Specify) Contaminated Soil (9) WASTE DESCRIPTION Misc. Debris	(10) PHYSICAL FORM/ SOLIDIFICATION AGENT	Solid				D % OF C	HELATING		Metal_		X A	FORM CLASS			
(13) (X) Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE L ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE (14) IMPORTANT "This is to certify that the above named materials are proper and labeled, and are in proper condition for transportation according to Transportation	OR HIS DESIGNATED AGENT operly classified, described, package	d, marked	of I Ma an ma	ow level rac terial Licen ended, and de that the	lioactive wa se No 09 the effectiv inspection	aste has b 7 as ame ve Barnwe revealed	een inspec nded, and II Site Dispo no items o	ted in acco the Nucle osal Criteria of non comp	rdance with ar Regulato within 48 ho bliance with	the requireme ry Commission ours prior to shi	nental Control the ents of South Car n's License No pment, and furth laws, rules and	olina Radioactiv 12 13536 01 a ier certification			
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Company <u>Umetco Minerals Corp.</u>	Date <u>8-21-8</u>	4		ephone No											
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BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM-NUCLEAR SYSTEMS, INC

CONTINUATION SHEET

Umetco Minerals Corp.

GENERATOR NAME.

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

PAGE _____ OF _____2

(16) ITEM NO	(17) RADIO NUCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	(21) CHEMICAL FORM AND NAME & 5- OF CHELATING AGENT	(22) WASTE DESCRIPTION	(23) WASTE FORM CLASS		S U) 1	(25) SPECIAL NUCLEAR MATERIAL (grams)	(26) SOURCE MATERIAL (pounds)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Cu Ft)	(29) CONTAINER TYPE	CONTAINER, SURFACE LXMR/HR D R/HR	LEVELS (TT) 1 METER mR/HR	C (DI Alpha	(31) TAMINATION ONTAINER SURFACE M/100cm2) i Beta Gamma	(32) DOT SUB TYPE (A1 A2 LSA etc)	(33) FISSILE CLASS	(34) LABELS/ MARKINGS USED
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Form No CNS 201 (9-83)

(1) GENERATOR NAME UMETCO MINERALS CORP. ADDRESS 137 - 47th Street	BARNWELL WA Operated by P O Box 72	CHEM-NUC 6, Barnwell, 9 (803) 259	LEAR SYS South Car -1781	STEMS, IN olina 298	NC 312					ıssouri 6	
CITY Niagara Falls STATE New York	RADIOACT	IVE SHIPMEN	II MANIF	EST FOR	VI					CE EXPOSURE	
CONTACT G.E. Walck PHONE (716)278-3361										NO	
) USE THIS NUMBER ON LL CONTINUATION PAGES	VOLUME AL 0884–324		10	PAGE _1 OF _2	DRIVER	SIGNATURE	Vober	t-Dred	NEL BATE 8	/21/84
(5) TOTAL FOR PROPER SHIPPING NAME & HAZ/		ID NUMBER	(6)		SHIPME	NT TOTALS	·			****	TAL SNM
EACH CLASS (PER 49 CFR 172 101) NO OF WEIGHT PACKAGES (Pounds)			VOLUME (Cubic	TOTAL NO OF		ACTIVITY (10CF			SOURCE (Pounds)	U 233	GRAMS N/A
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Umetco Minerals Corp.

GENERATOR NAME _

BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM-NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES $\frac{2}{\text{PAGE}} \stackrel{Q}{=} \text{OF} \frac{2}{\text{PAGE}}$

CONTINUATION SHEET

(16) ITEM NO	(17) RADIO NUCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	(21) CHEMICAL FORM AND NAME & ''' OF CHELATING AGENT	(22) WASTE DESCRIPTION	(23) WASTE FORM CLASS	(24) STABILITY CLASS (S. L.		AR MATER	AL CONTAINER		(29) CONTAINER TYPE	(30 RADIATION CONTAINER SURFACE LMMR/HR	LEVELS	, c	(31) HAMINATION CONTAINER SURFACE PM/100cm2) a Beta Garima	(32) DOT SUBTYPE (A1 A2 LSA etc)	(33) FISSILE CLASS	(34) LABELS/ MARKINGS USED
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Form No CNS 201 (9-83)

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Life Department.	Shipper's Certificate of Compliance
Part I:	Shipper's Certificate of Compilation
1. Name of Shipper and Address:	2. Shipment Identification No.
Umetco Minerals Corporation	0884-324A
137 47th Street	2 Floor growt Pormit No
Niagara Falls, NY 14302	3. Transport Permit No 0211-31-84-X
Telephone No. (716)278-3361	Waste Transportation and

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date August 21, 1984

G.E. Walck, Construction Superintendent
Typed Name and Title of Agent of Shipper

D. E. Walch 8-21-84.

Part II: Carrı	er's Certification
Name of Carrier and Address:	2. Shipment Identification No.
Trı-State Motor Transıt Company	0884-324A
P.O. Box 113 Joplin, Missouri 64801	3. Transport Trailer No.
Telephone No. (800) 641-7591 4. Scheduled Date of Departure of Shipment:	5. Estimated Date of Arrival of Shipment:
August 21, 1984	August 23, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date August 21, 1984

RobERT DREHER
Typed or Printed Name and Title

Signature

DHEC 803

(Copies of this form may be reproduced locally as needed)

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

	C I	C. J. E.	- Tackmucktons							
	l Name and Address of Shipper	deverse side id	or Instructions	ponsible for Radioactive						
	Umetco Minerals Corporat	tion	Waste Ship							
	•	1	(a) Name	G. E. Walck						
	137 47th Street		(b) Title Construction Superintend (c) Telephone No. (716) 278-3361							
	Niagara Falls, NY 14302									
	3. Radioactive Waste Transport Perm	nit No	4 Shipment Identification No.:							
	0211-31-84-X		0884-324A							
	5. Location from which waste will h	ce shipped	6. Name and Address of Consignee							
			Chem-Nuc	olęgr Systems, Inc.						
	Same as (1) Above	İ	י אוו ע	v //h						
	7 Scheduled Date of Departure of S	Charmont .	8 Estimated	South Carolina 29812 Date of Arrival of Shipment						
	August 21, 1984	3111 Milette	o. Estimated	August 23, 1984						
	•			<u> </u>						
	· · · · · · · · · · · · · · · · · · ·		ensport Vehicle	<pre>11. Trailer No and Owner (if available)</pre>						
٦	Tri-State Motor Transit	Close	d Van	(11 41411411)						
	12. Routes shipment will follow in	State of South	n Carolina (Be Sp	ecific)						
	I-20, I-26, US-32	1, S.C. 3 a	nd S.C. 64							
	•									
		Manıfest Sı								
	13 Type Container or Cask	14 Containe	r Spec.	15. Total No of Containers						
	Wood Boxes	CFR 49	173.392 (c)	8						
	16 Waste Description, Physical and		17 Prominent	Radionuclides						
	Chemical Form Contaminate	ed Solids		ium (Nat.) .0028						
Me:	tal Oxides, Bldg. Rubble, Woo			ium (Nat.) .004						
ΡÌ	ant Hardware									
, , ,	18. Total Curies	19. Transport	Group	20. Total Cubic Feet						
	.068	III		520						
	21 Waste Classification									
2912	M Radioactive LSA [] Bulk LSA		Normal Form	Special Form Fissile						
	[] Radioactive LSA [] Limited		Type A quantity							
	greater than and radı		Type B quantity	[] Type B quantity [] Class II [] Large quantity [] Class III						
	Type A quantities devices	13	Large quantity	[] Large quantity [] Class III						
		CERTIFIC	ATION							
				a a language of Honlith						
	I hereby certify on behalf of the	above-named sh	ipper to the Sout	th Carolina Department of hearth						
	and Environmental Control that the	information p	rovided herein is	the provisions as required by						
	best of my knowledge, and that the Act No 499 of 1980, the South Car	shipper has c	Ompiled with all	ortation and Disposal Act						
	Act No 499 of 1980, the South Car	olina kadioact	.ive waste manspo	or cacton and proposed						
	Date August 8, 1984		,							
			19,	21n1						
	o e u la la Canadanada	Ct	// 5	4/a/lah						
	G. E. Walck - Constructi	on Supt.	() C	Truck -						
	Typed Name and Title of Agent of S	hipper	(Signature (G	. E. Walck)						
		CONSIGNEE ACKN	OWLEDGEMENT							
			Ton1+h	and Engironmental Control that						
	This acknowledges to the South	Carolina Depar	tment of Health	and Environmental control and						
	the above-described radioactive	. waste snipmen	it was received							
	Date of Delivery		Signature of	Consignee or authorized						
	•		Agent							
			Typed or Pri	nted Name and Title						
			1,500 01 111							

Original: S. Carolinacopies of this form may be reproduced locally as needed)
Copy. Chem-Nuclear

THIS MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading from a copy or dublicate covering the property named neren's and is infonded solely for filling or record

Shipment Number 615-3003 Carrier's No ___655871

Tri-State Motor Transit Company

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

Umetco Minerals Corp.

AT Mariettax Ohio

August 21 ,19 84 From WETALS/DIVISION

Niagara Falls, NY For use via carrier truck under the exclusive/sole use shipments/movements

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route otherwise to deliver to another carrier on the route to said destination. It is mititally agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official. Southern Western and Illinois Freight Classifications in effect on the date hereof if this is a raif or a raif water shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assums

CHEM N	NUCLEAR SYSTEMS, INC. O UCCAMETALISTINISTON BARNWELL MANAGEMENT	FACILITIE		SHIPPERSORDER N	O CUSTOMER'S ORDER NO
	EYAYAY BARNWELL (Osborn Road)	State Zolorado		linaCount	YESHWAY BARNWELL
Route Delivering (Carrier Tri-State Motor Transit	Car or (Vehicle Initials	32162	_{No} C <u>44</u> 5	5106> Seal 262503
No Packages 8	Radioactive Materials, I.S.A. nos (520 cu. ft.) *Weight (Sub to correction)) pound so nated soll ient.	Class or Rate	Column ship cons the constant t	ubject to Section 7 of Conditions applicable bill of lading it this sign following statement he carrier shall not make delive of this shipment without payor of freight and all other lawful applicable (Signature of consignor) (Signature of consignor) (Signature of consignor) (Charles Xare (CONSE) prepaid Xarie (Signature of Consignor) (Signature of consignor)	
	Vehicle assigned for sole use of consignor. Do not load o transfer in route and do not break the seal on truck	Walck	·		Agent or Cashier The signature here acknowledges the amount prepaid) Charges advanced
	Carrier hereby acknowledges that prior to or at the tire transportation, the shipper provided or affixed, according required placards or orange panels (including prescribed hazardous material named hereon Signed Signed	ing to applicable identification in	regulatio:	red for ns. the Correscent subject with the Correscent sub	this shipment is correctly described rect weight is lbs per to verification by the c.G. Evans [metco Minerals Corp. 7.0. Box 97]
The agreed or o	declared value of the property is hereby specifically stated by the shipper to be not exceed	ding			per
Per Permenent posto address of shipp UC 326-34	METALS DIVISION Umetco Mineral Vinion CARBIDE CORPORATION Umetco Mineral Shipper 8-21-74	Ls Corporat	ion		Agent